

**Fig. 1-1**

Fig. 1-2

MEAWDAHP -> (SMRT)

h: 971	AAPTKPAPPAPPPQNLQ	PESDAPQQPGSSPRGKSRSPAPPADKEAKPVFFPAPFAAEQAQLPGDPPCWTSGLPFFVPPREVIKASPHADPDSAFSYP
m: 987	TV-P-V-V-T-H	---G-VS---S-G---V-E---A---PT-G-SYRLS-HA.GHR---SH-----T-TR---L---T---
h: 1071	GHPLPLGLHDTARPVLPRPPTISNPPPLISSAKHPSVLERQIGAISQGMVQLHVPYSEHAKAPVGPVTMGLPLPMDPKKLAPFSGVKQEQLSPRGQAGP	-----S-----G-----R-H-----M-L-E---AV-----GTALAPPPVEA---ASQ..
m: 1083		
h: 1171	PESLGVPTAQEASVLRGTALGSVP	GGSIITKGIPTSTRVPSDSAITYRGSITHGTTPADVLYKGTITRIIGEDSPSRLDRGREDSLPKGHVIEGKKGHVLSY
m: 1179		.....Y-GC-R-QLQLYH....PR-----S-V-----A---T-----
h: 1271	EGGMSVTQCSKEDGRSSSGPPHETAAPKRTYDMMEGRVGRAISSASIEGLMGRAIPPERHSPHLKEQHHRGSI	TQIGIPRSYVEAQEDYLRREAKLLKR
m: 1243		-----S-----TVT-----Q-----
h: 1371	EGTPPPPPPSRDLTEAYKTQ...	ALGPLKLKPAHEGLVATVKEAGRSIHEIPREELRHTPELPLAPRPLKEGSITQGTPLKYDTGASTTGSKKHDVRSLLI
m: 1341		-----P-----T---PRPLDP-----T---V-----R-----S-PS-T-----
h: 1468	GSPGRFTFPVHPLDMADARALERACYEESLKS	RPGTASSGGSIARGAPVIVPELKGPRQSPLTIEDHGAPFAGHLPRGSPVTMREPTPRLQEGSLSSS
m: 1441		-----P--AL---I-----S-S-GA---T---V-----TS-----T-----L---
h: 1568	KASQDRKLTSTPREIAKSPHSTVPEHHPHPI	SPYEHLRLRGVSGVDLYRSHIPLAFDPTSI
m: 1541		PRGIPLD.AAAAAYLPRHLAPNPTYPHLYPPYLIRGYPDT
		-----T-----G-----EA-----S-----

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M->(TRAC1)

h: 1667	AALENRQTIINDYITSQQMHNTATAMAQRADMLRGLSPRESSLALNYAAGPRGIIDLQVPHLPVLVPPPTGTPATAMDRLAYLPTAQPPFFSSRRHSSS
m: 1641	-----A-S-----S-----I-----P-----H-----
h: 1767	LSPGGPHLTKPTTTSSSREDRDRDRDREREKSIILTSTTTVEHAPIWRPGTEQSSGSSSSGGGGSSSRPASHSHAHQHSPISPRQTQDALQQRPS
m: 1741	-----A--A-----E-E-----G-----
h: 1867	VLHNTGMKGIITAVEPSKPTVLRSTSTSSPVRPAATFPPTHCPGLGGTLDGVYPTLMEPVLLPKEAPRVARPERPRADTGHAFTLAKPPARSGLPEPASSPS
m: 1825	-----S--VV-S--GT-----E-----TS-----V-G-----T-----
h: 1967	KGSEPRPLVPPVSGHATIARTPAKNLAPHASDPDPAPPASADPHREKTQSKPFSIQELLELRSLGYH.GSSYSPEGVEPVSPVSSPSLTHDKGLPKHLE
m: 1922	-S-----S-A--S-S-TA-----S-----G.-T--L-----S-AG--D--I-----S-P--
h: 2066	ELDKSHLEGLRKPQPGPVKLGEAAHLPHLRPLPESQPSSPLLQTAPGVKGHQRVVTLAQHISEVITQDYTRHHPPQOLSAPLPABLYSFPGASCPVLD
m: 2021	-----H-----M--SA-----I-----G-----
h: 2166	LRRPPSDLYLPPPDHGAPARGSPHSEGGKRSPEPNKTSVLGGEDGIEPVSPPEGMTEPGHSRSAYPYLLYRDGEQTEPSRMGSKSPGNTSQPPAFFSKL
m: 2121	-----T-----S-----SS-A-----A-----G-----
h: 2266	TESNSAMVSKKQEIINKLNTNHRNEPEYNI SQPGETEIFNMPAITGTGLMTYRSQAVQEHASTNMGLEAIRKALMGKYDQWEESPPLSANAFNPLNAS
m: 2220	-----G-----A-----C-----P--G-----
h: 2366	SLP.AAMPITAADGRSDHTLTSPGGGGKAKVSGRPSRKAASPAGLASGDRPPSVSVHSEGCNRRRTPLTNRVWEDRPSAGSTFPYPNPLIMRLQAG
m: 2320	-----T-----A-----
h: 2465	VMASPPPPGLPAGSGPLAGPHHAWDEEPKLLCSQVETLSDSE 2507
m: 2420	-----A-----2462

Fig. 3

